Earlham College ☑ ellefer@earlham.edu 242 1/2 S 5th Street Richmond, IN 47374

# Erin Ellefsen

#### Education

August 2022 PhD Applied Mathematics, University of Colorado Boulder

December 2020 Masters of Science in Applied Mathematics, University of Colorado Boulder

May 2017 Bachelors of Arts, Magna Cum Laude, Mathematics, Luther College

## Post-Doctoral Academic Experience

- o ES 1, How Not to Get Duped: Reasoning mathematically to find the truth in an age of digital lies, Fall 2023
- MATH 120, Elementary Statistics, Spring 2023
- o MATH 180, Calculus A, Spring 2023
- MATH 330, Mathematical Modeling, Spring 2023
- o MATH 320, Differential Equations, Fall 2022, Fall 2023
- o MATH 300, Mathematical Statistics, Fall 2022, Fall 2023

## Publications Since Date of Hire

Erin Ellefsen, Nancy Rodríguez; "Nonlocal Mechanistic Models in Ecology: Numerical Methods and Parameter Estimation", Preprint, 2022.

## Funding

Submitted 2023 Rana Parshad, Erin Ellefsen, Bo Zhang; Managing Competition Dynamics under Fragmentation for Enhanced Incation Control, NSF Mathematical Biology.

- o Competitive federal program that supports research in areas of applied and computational mathematics relevant to the biological and life sciences.
- 2023 Erin Ellefsen; Using Differential Equations to Investigate Invasive Species Management and Cyclical Mating Dynamics, Earlham College Summer Collaborative Research.
  - o Internal funding program that supports summer research experiences for undergraduates.

#### Presentations and Conferences Since Date of Hire

February 2023 SIMIODE Expo Attendee; A conference for faculty, students, and other parties interested in using modeling to motivate, teach, and learn differential equations, Virtual.

April 2023 Earlham Biology Colloquium; Mathematical Modeling in Biology, Richmond, IN.

## Community Engagement

AY 2022-2023 General Education Learning Circle Participant

O A learning circle focused on assessment which consisted of five meetings, a completed worksheet reflecting on assessment in our classroom, and a product/report to share our reflections with the campus community.

### AY 2022-2023 Re-Launched Earlham's Chapter of Association for Women in Mathematics

 Association of Women in Mathematics (AWM) is a group for gender-minorities in mathematics. Planned activities have included: AWM lunches in the dining hall several times a semester, weekend pizza gatherings, an AWM bowling event, and a career panel.

## AY 2022-2023 Assisting Volleyball Graduate Assistant with team statistics

 Attended various meetings with Cal Pringle to share statistics expertise in regards to volleyball data, guide possible analyses that will help advise training, and share data that could possibly be used as examples and projects in the statistics classroom.

Spring 2023 Search Committee Member for Biology's Quantitative Plant Ecologist